Time's Here to Swat the Fly OUSE FLIES carry disease from one human being to another. This has been proved scientifically. And now it remains to prevent these insects, or to reduce their numbers in the community, that the diseases they convey may be reduced also, or even abolished. One method of dealing with diseasebearing insects is to trap and kill as many as we can. For this reason "kill that fly" or "swat that fly" crusades

have been instituted in many places. But it has been found by experiment that we cannot hope to kill sufficient fles to reduce seriously their total numbers. This is because files breed at a very great rate when the weather is warm, and the total numbers which we can kill is so small, when compared to the total numbers born, that the reoult of the "swatting" campaigns has been disappointing.

All our efforts should be directed at preventing house flies from breeding-for prevention is better than cure. The best way to do this is to observe strict cleanliness-municipal cleanliness and home cleanliness. Then these insects will desert the neighborhood and the diseases they convey will vanish. This was the policy pursued on the Suez and Panama canals to prevent malaria and reliow fever, which are conveyed from one person to another by mosquitoes. The method was most successful.

The house fly breeds in fith. Each female fly, as soon as the weather is warm enough, lays about 150 eggs on collections of manure, decomposing garbage, street rubbish or house refuse, and the eggs hatch into tiny maggets. After five days have passed, each magget becomes a rolledup, bean shaped chrysalfs, and after another five days each chrysalts gives birth to a two-winged. six-legged, whiskered, bristly flying insect known to us as the house fly. Bluebottles breed similarly, but they prefer to lay their eggs on rotting carcasses or decaying animal matter. The house fly and the lesser house fly convey disease by bathing their legs in germ-lades material, which they find during their feeding forays. The germs stick to their legs and to the lips of their telescopic proboscides, and then are carried to the milk jug, the teacup, to the cut loaf, and to the culinary utensils. Sometimes the flies evallow the germs, which multiply inside them. and afterwards the concentrated disease focus is again deposited wherever the fly settles.

We can be rid of flies if we observe the ordipary common sense rules of cleanliness and sanitation. No fly lairs, or breeding places, must be permitted near human habitations. All unclean places must be made clean regularly once a week by the sanitary or municipal authorities, and then the fly maggets will be unable to come to maturity, and so the pest will be exterminated. Recently a war on files has been taken up assiduously by the press, and the medical officers of health are exerting themselves to start antify campaigns.

Thus the municipal authorities have made a start, and it remains for the individual householders to help them. Each one of us can do our share of fly prevention. We can prevent flies In our own homes. On one morning, every week, we must inspect our own premises. Begin in the kitchen Observe every nook of the scullery, the pantry, the cellar, even the dining room, and see that every corner and cranny is acrupulously clean. Next, we must examine the dusthin to see if it is completely cleaned out. Let there be no small collections of tea leaves spilled out of it, or rotting peelings or scraps of bread, or any other places where files can breed. Let the cheese be well covered, and the bread be in its pan, and all food within the larder in its proper place. And let everything be clean and whole-

It is most important, also, to inform our neighbors on every convenient occasion of the disgusting and dangerous character of house flies, and to ask them to co-operate in preventing them Then there will be an organized campaign against these insects. The more we talk about it the sooner will the thing be done. The education of children in the matter is also most essential Then a new generation will grow up knowing the dangers of flies and how to prevent them. Schoolmasters and schoolmistresses should be invited to teach their charges about flies, and should set the example by instructing them in the tenets of school cleanliness. This will help us greatly. If we all keep our own homes sweet and clean. our children's lives will be spared the horrors of summer sickness, typhoid will be lessened, doctors' bill will be reduced, and the health of the community will be improved enormously. With regard to house flies and fly borne diseases the remedy is simple. Let us apply it.

As a result of experiments, the specialists of the United States department of agriculture have discovered that a small amount of ordinary borax sprinkled daily on manure will effectively prevent the breeding of the typhoid or house fly. Similarly, the same substance applied to garbage. refuse, open tollets, damp floors and crevices in stables, cellars or markets, will prevent fly eggs from hatching Borax will not kill the adult fly nor prevent it from laying eggs, but its thorough use will prevent any further breeding.

The investigation, which included experiments with many substances, was undertaken to discover some means of preventing the breeding of files in horse manure without lessening the value of this manure as a fertilizer for use by the tarmer. It was felt that if some means of preventing the breeding of files near a human habitation could be devised, the diseases spread by these filthy germ carriers could be greatly refuced. While the "swat the fly campaign," traps and other devices for reducing the number of typhoid-carrying files are of value, they are of iess importance than the prevention of the breeding. It was realised, however, that no measure for preventing the breeding of files would come into common use unless it was such that the farmer could use it on his manure pile without destroying its usefulness for growing plants, and without introducing into the sell any substance that would interfere with his crops

As a result of experiments carried on at the Ar-Hegion farm, in Virginia, and New Orleans, La.

YOUR ENEMY THE FLY FLY MAGGOT EMERGING FROM The HOUSE FLY. DISPASE X CHEEYING PHETS MIENZO WITH A FLY PUPE TONOUE MAGNIFIED roor MOTERIA OF ENLARGED JOHLE BACTERIA ATTACHED TO THE STICKY PAD OF THE KY'S FOOT HOUSE FLY, SHOWING PARTS WHICH PROPHORTE DISTANCE

the investigators found that 0.62 of a pound of borax, or 0.75 of a pound of calcined colemanite (crude calcium borate) would kill the maggots and prevent practically all of the flies ordinarily breeding in eight bushels of horse manure from developing. This was proved by placing manure in cages and comparing the results from piles treated with borax and from untreated piles. The borax, it was found, killed the fly eggs and maggets in the manure and prevented their growth into flies

In the case of garbage cans or refuse piles, two ounces of borax or calcined colemanite, costing from five cents a pound upward, according to the quantity which is purchased, will effectually prevent files from breeding.

While it can be safely stated that no injurious action has followed the application of manure treated with borax at the rate of 62 pounds for eight bushels, or even larger amounts in the case of some plants, nevertheless borax-treated manure has not been studied in connection with the growth of all crops, nor has its cumulative effect been determined. It is therefore recommended that not more than 15 tons of the borax-treated manure should be applied per acre to the field As truck growers use considerably more than this amount, is is suggested that all cars containing borax-treated manure be so marked, and that public health officials stipulate in their directions for this treatment that not over .62 (62-100) of a pound for eight bushels of manure be used, as it has been shown that larger amounts of borax will injure most plants. It is also recommended that all public health officials and others in recommending borax treatment for killing fly eggs and maggots in manure warn the public against the injurious effects of large amounts of borax on the growth of plants Purchasers of manure produced in cities during the fly-breeding season should insist that the dealers from whom they purchase give them a certified statement as to whether or not the manure in the particular car or lot involved in the purchase has been treated with borax.

In feeding to hogs garbage that contains borax care is also recommended, especially when the animals are being fattened for market. Borax is not a very polsonous substance and the feeding of garbage that contains it to hogs is not likely to be a serious matter. On the other hand, borax in large quantities does produce gastric disturbances and for this reason a certain amount of care is advisable.

The method for using this substance in the case of stables is to sprinkle the borax or colemanite in the quantities given above, by means of a flour sifter or other fine sieve, around the outer edges of the pile of horse manure. The manure should then be sprinkled immediately with two or three gallons of water to eight bushels of manure. It is essential however, to sprinkle a little of the borax on the manure as it is added daily to the pile, instead of waiting until a full pile is obtained, because this will prevent the excs which the flies lay on fresh manure from latching. As the fly maggots congregate at the outer edge of the manure pile, most of the borax should be sprinkled there.

Boras costs five to six cents per pound in 100pound lots in Washington, and it is estimated that at this rate it would cost only one cent per horse per day to prevent all breeding of flies in city stables. If calcined colemanite is purchased in large shipments, this cost should be considerably less. At the same time, if the borax is used on the manure only in the proportions stated its value for use to the garden or for sale to farmers will not be lessened

In view of this discovery, there now seems little excuse for any horse owner or resident of a city allowing typhoid files to breed in his stable or garbage can

It is believed that this information will greatly help the health authorities in their campaign against the typhoid fiv. The health authorities have long tried to prevent the breeding of flies in city stables through the use of iron sulphate as a larvacide. In the case of iron sulphate, however, a large amount is required, and other insecticides such as paris green or potassium cyanide, while effective in killing flies, are very expensive or extremely poisonous. Borax, which is used freely in most bouseholds, and is readily available in all parts of the country, has the advantage of being comparatively nonpoisonous and noninflammable, readily soluble in water and easy to handle. It can be purchased at retail for ten cents a pound, and a single pound used as directed in a garbage pail or open tollet may prevent the breeding of hundreds of dangerous flies

EXPERIENCE AS A TEACHER.

Little Lemuel-Paw, why do so many people

Paw Because, son, that is the only thing most of them can borrow without security

MOVE NOT POPULAR

Objections to Sealed Proposals of Marriage.

Speculations as to Some of the Results if a Proposed New York State Law Should Be Put Into Effect

The attention of all single men and maidens, and of widows also, is directed to a bill introduced into the New York legislature providing that no agreement shall be enforced by the courts unless they have been reduced to writing and signed by the parties This is a subject worth consideration at all times, but it is especially appropriate at the season when a "young of love."

The purpose of the bill, estensibly, is to protect men from suits for breach of promise which are, strictly speak men whose favorite recreation is to has been accomplished, make some times greater. more love to some other women. The to be changed there should be full no have been done by any instrument. tice for the protection of all concerned.

the marriage rate in a notable percent-try. age. There are some bashful men who find it easier to propose by letter than orally, but most men glide gently into an avowal of their affection under the personal magnetism of the charming creature, and are liable to be scared off by the production of a blank form | khan fisheries, approximately 75 per looking like an income-tax return, cent is exported. with the request of the girl that they fill it out and sign it while she is communing with her soul whether to add her signature.

posed to Peg o' My Heart, who had recite the Decline and Fall of the already received matrimonial over Roman Empire" from cover to cover, tures from two undesirables, she yet his mind continued to be of asked: "Are you making a proposal of the nursery type, and he did not unmarriage to me?" Whereat the man derstand what he dramatically reshe was dying to marry stalked off to cited the window and looked gloomity into the river, and the alarmed girl upbraided berself for her folly in talking

pants as a piece of silliness.

marks to writing "

for breach of promise of marriage. No prohibited under a heavy fine woman really wishes to marry the man who has thrown her off, or if she does, it is only for the ressession woman sneers at the idea of mar regarded as an uplificriage as a career, the can make her .

Therefore, pecuniarily, she is not intured by a broken engagement, and the law undertakes to indemnify the woman, not for her injured feelings your suburban place" but for the substantial material loss when a good catch gets away from her. The suit for breach of promise is an anachbronism. - Philadelphia man to be bossed by his rich relatives Record

FROM ALL THE WORLD

In 20 years the city of Buenos Airss has almost trebled its population. Small kerosene atoves are practically the only heating and cooking

stoves used in Paraguay. Since the reign of George II no abbreviations have been allowed in le-

gal documents in England. More than five marriages are not permitted one person in Russia, and eighty years is the marriageable limit.

The earth, under a thick covering of snow, is ten degrees warmer than the air immediately above the snow.

Auction sales originated in unclent Rome, and were introduced to enable soldiers to dispose of spolls of war. Chemists know about 150,000 organte chemical compounds, and are increasing the list from 5,000 to 8,000

From 1,325,000 tons of tar annually man's fancy lightly turns to thoughts produced in Great Britain from coal, about 10,000,000 gallons of benzol are obtained.

It is believed that an excellent substitute for silk has been produced ing, blackmailing enterprises. But it in Panama by crossing the blooms of would serve equally well to protect certain wild fiber plants with a species of texture finer than coccon silk. make love to women, and when that but with a tensile strength about five

A steel screw, which for 20 years written proposal of marriage, duly helped to hold together the guide signed, has several points of advan-board of a wallpaper trimmer, was tage about it, but it is important that worn completely in two merely by paall marriageable persons should be per rubbing against it. During that well informed of the measure if it times approximately 400,000 rolls of should become a law, and he on their paper were trimmed by the machine. guard. If the rules of the game are The screw was cut as smooth as could

England's per capita consumption The change would probably reduce of codfish is the greatest of any coun-

The only animals left affive in the Antwerp zoo are the elephants, which are now being used for military traction purposes

Of about 1,400,000 pounds of caviare obtained each year by the Astra-

Dr. R. Armstrong-Jones, chief medical officer at Clayburn asylum, Woodford, England, in a lecture on the relation of genius to insanity, recently When Sir Something Orother pro- said that he knew a man who could

Russia Becomes Temperate

The probabition of selling brandy in the government monopoly shops In this case the man had to get over Was introduced throughout the Rushis alarm at the gross, open and pal sian empire from the beginning of pable naming of the transaction, be the war on the day of mobilization, cause the play could not have gone on and has now been in force for more otherwise; but many a proposal off than eight months. One of the Rusthe stage has been permanently slan papers has made inquiries conwrecked by the injection of too much cerning the results of this measure, common sense into an affair usually and has published some of the statisdescribed by others than the partiel tital data that was collected. The following list shows the consump-How many men would sign and seal tion of yodka in the efty of Moseow a written agreement of marriage if the | in 1914 compared with the preceding girl upon receiving the tender avowal. Year: July 612 886 gallons in 1913 had promptly gone to her father's desk and 159,124 gallons in 1914. August, and obtained a sheet of paper and a 667 326 gallons in 1912 and 22,373 galpen and ink and asked the infatuated lens in 1914. Cetiber, 707,688 gallons man to please reduce his pleasant re in 1912 and 2.912 gallous in 1914. During the first three months yadka could Perhaps it would be just as well in be obtained at the first class restanleave the proposal to oral or oscula rants for consumption in the same,

"Ind you see where an official says of some of his money. The modern that the Pullman porter's position is

The made a mistake, by meant a own career, just as her brother does | hold-up."

Experience. "Any sort of sine around about

Ten lots of paramites. It is the hare of practically every

and imposed upon by his poor ones.

The Direct Relation

Between What We Eat and What We Are Is Well Established

This is both reasonable and scientific, for activity uses up tissue cells of body and brain which must be replaced daily from proper food.

A careful eater—one who selects food for its nutritional value is usually strong in body and

Thousands of people, with an eye to nutritional values in food, are using

Grape-Nuts

This delicious food, made of whole wheat and barley, contains all the nutrition of the grain, including those priceless mineral elements which are vitally necessary for rebuilding the tissue cells of body, brain and nerves.

"There's a Reason" for Grape-Nuts

-sold by Grocers everywhere.